Claims

- 1. A process for providing a security document, in particular a banknote, with a coloured marking, comprising providing a photosensitive preparation on a portion of said document and submitting at least selected areas of said portion to a light beam, characterised in that said preparation is capable of forming a film on said portion and comprises a substance capable of producing colloidal metal or semiconducting particles under the effect of UV irradiation, and in that said areas are irradiated by means of an UV-light beam so as to produce said colloidal particles.
- 2. A process as claimed in claim 1, wherein said preparation is an ink or varnish, is substantially transparent before said irradiation and comprises a film forming polymer and a precursor of colloidal metal or semiconducting particles.
- 3. A process as claimed in claim 2, wherein said precursor is a precursor of Au, Ag or Cu colloidal particles.
- 4. A process as claimed in claim 1, 2 or 3, wherein said film forming polymer is a polysaccharide or polypeptide and said precursor is an inorganic gold salt or acid.
- 5. A process as claimed in claim 4, wherein said film forming polymer is chitosan and said precursor is a chloroauric acid.
- A process as claimed in anyone of claims 1 to 5, comprising the steps of
- a) applying a chitosan solution onto said portion of said security paper and
- b) drying said portion, so as to form a film having a thickness of between 0.5 and 20 μm
- c) applying a solution of chloroauric acid to said portion, and

- d) drying said portion in the dark
- 7. A process as claimed in anyone of claims 1 to 5, comprising the steps of
- a') combining a chitosan solution and a chloroauric acid solution in a molar ratio $HAuCL_4$ / chitosan monomeric unit of between 0.1 and 1
- b') applying said combined solution onto said portion of said security paper and
 - c') drying said portion in the dark
- d') eventually repeating steps b' and c' so as to form a film having a thickness of between 0.5 and 20 μm , in particular of between 2 and 10 μm .
- 8. A process as claimed in any one of the preceding claims, wherein said irradiation is performed by means of a pulsed excimer laser.
- 9. A process as claimed in anyone of claims 1 to 7, wherein said irradiation is performed by means of a frequency-multiplied solid state Laser.
- 10. A process as claimed in anyone of the preceding claims, wherein the irradiation is performed by a beam deflection method via a plurality of mirrors.
- 11. A process as claimed in claim 10, wherein said irradiation is performed via a system of a beam scanning system, in particular piloted galvanometric mirrors.
- 12. A process as claimed in anyone of the preceding claims, wherein a diffractive network is reported into said film.
- 13. A process as claimed in anyone of the preceding claims, wherein a covering layer is applied onto said film after said irradiation, said covering layer having a high

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absorption in the UV range and being substantially transparent in the visible light region.

- 14. A process as claimed in anyone of the preceding claims, comprising a reticulating step after development of said marking.
- 15. A process as claimed in any one of claims 10-14 providing an identity marking to said security document.
- 16. A security document, in particular a banknote, bearing a marking obtained by a process as claimed in anyone of the preceding claims.
- 17. A security document, in particular a banknote, bearing an identity marking obtained by a process as claimed in any one of claims 1-15, wherein the amount of photosensitive preparation per surface unit provided to said document is smaller than the amount that is necessary to produce a metallic mirror aspect.